

Aca Kou 25° and Ly van on me of the glad that the Sprinces were of interest. After decived y our favor requisting me to make obsidation upon the Ricias, Dused every means to aid in settling the sploitie diffuence of P. P. and 1. E. Pion punging. La Croays found L. Parrys growing in wet or boggy ground along iontercourses; except in two mistarces, test & found a would tru ( in good health) at an elivation of good two wills below Georgelow on the side

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En Griffith M. B. Atte is t sail was not gud so dig as in Its most places on the mountain I c sides. Decond, Found quite su a number af Parrys growing an high and dry in the sound on him The divide between the troo hoin Arh Lakes Kevation 9000° This both koots may havis been in pleute befor of mustine however. Inover sand Parezi glenning All higher than good that and trus have surched for it all through on the with At Golden in 10 miles in 2 P. C the fact hills & found P. P. Setin graining at low down as 70000 50 st I found a number of trus alt of the same at Manton in ala Octobes only about 100 to 150 P. P. feit above the town along the The cruk in Engelmanns Canon wo Elivation not over a 500°. This eve

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e is the lowest I have over sun it. tain I can say that I did not quite see it any where west of the ving lange. I alden was the norther on limit (of my travels) and the slowin Arhansas the southun; in s both places & saw it as stated ents before It occurred on the Ash for 101 miles below Louis Lake ing Although I warmed many A trus I found no variations ingte in le Parryi, save what I simp To your, and they sum very shight. in Frandestuding to På Etimber lim but never as a oben ooo of struted bush Ats lowest s åtstude (mountain form) was in about 9000. never gronoing soith the The typical form that I though anon was a new spicies has blunter his even reture leaves and clustered

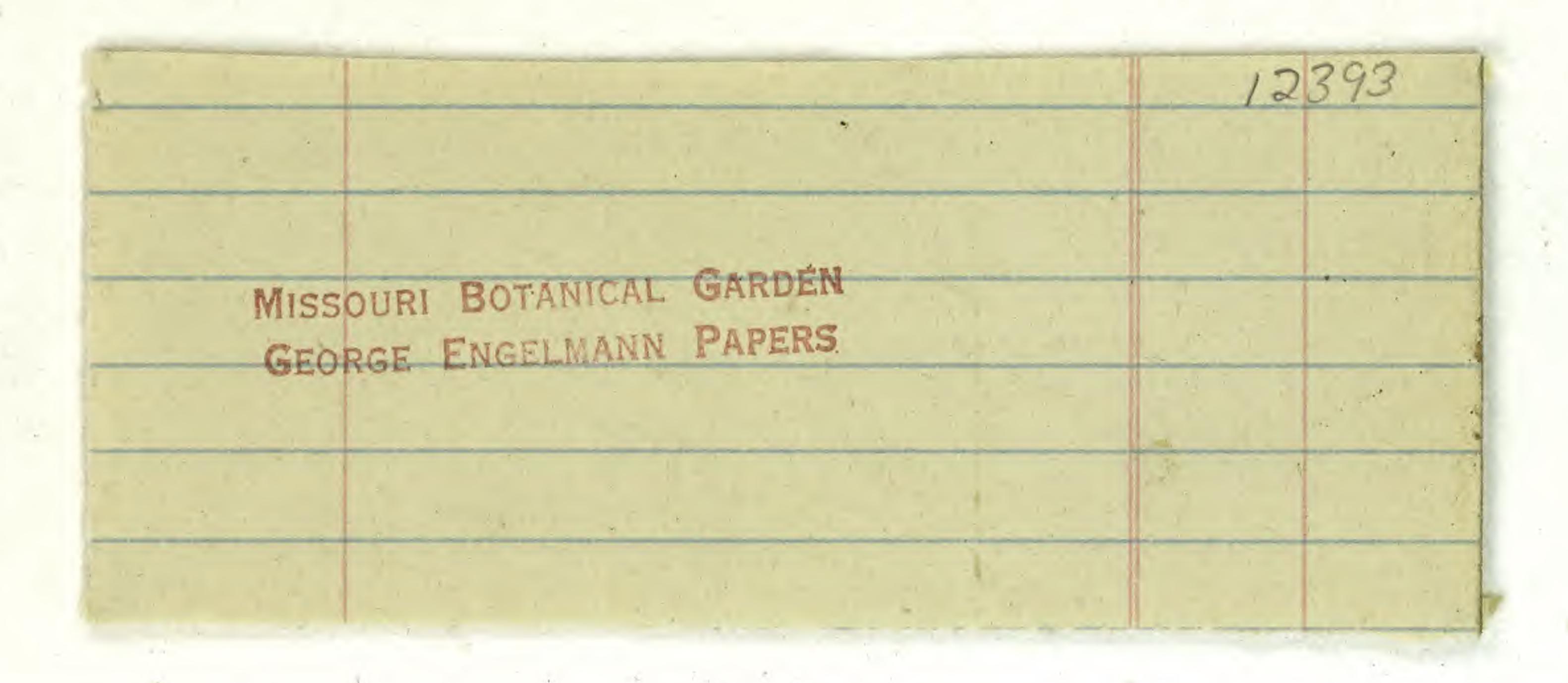
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comes. While the other form shas 2 alitary comes, back muchalike The lawer frem I never saw but ance and that was below fin fine, Elevertian 8300°. The mountain form I saw abundantly from Florige to Leadwille. If the the difference of the two were to be decided by tealor ado specimen & am satisfied you will have no trouble to dicide, Kor they are emphalically unlike The I fraganium I found 3 miles below Denor on the Platte ina dry water-pole. The heads of fruit were spheried but I could not get the such to stay on, they seemed to be rountly attached. I have no I tid heads of fruit. have a very strange plant that I call Swertig ? kutenting different from I perennis, Dwellsend it to you inthe pockage, together with other plant

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Nica Engelmann en the Head writers of Roque Rover in the Cascade range of Origon, west of the Norde probelle i 4000 alt fishe Orlier

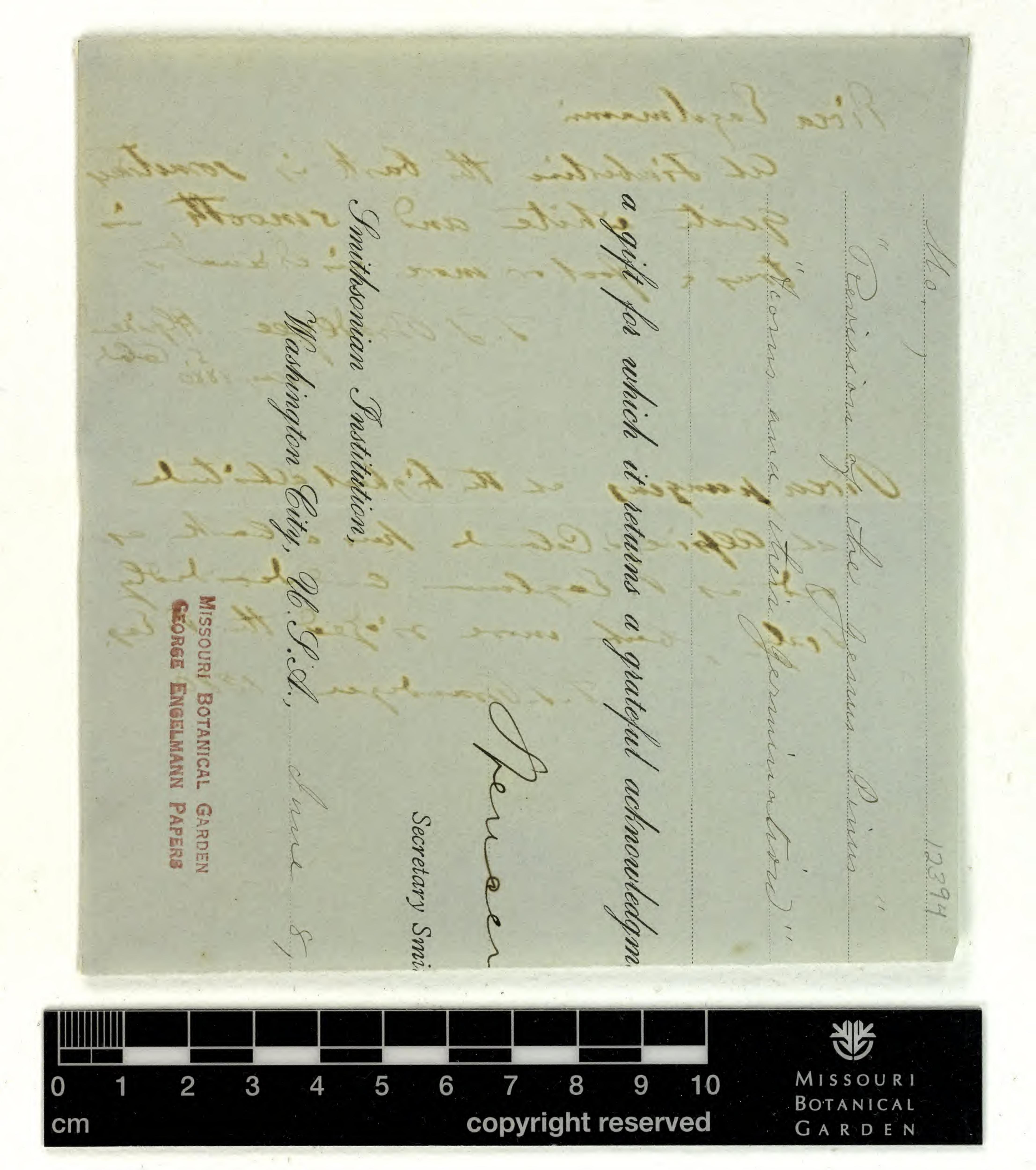


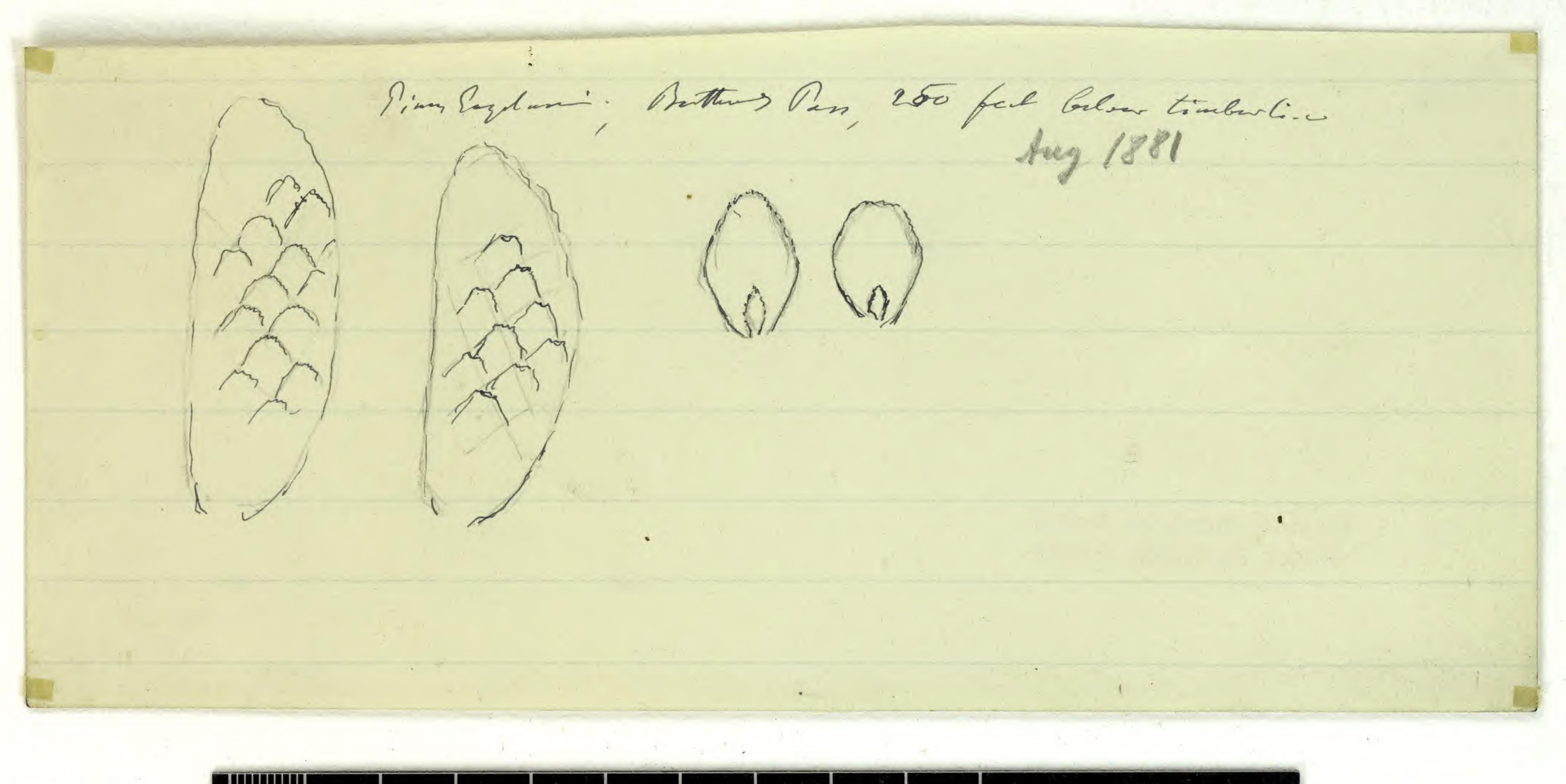




Vicca Eagelmanni at Timberline the bank is sometimes quite white and smooth, is trus & foot or more is d'auter T. S Brade gee Alpike May 1880 Viren pungens at the highest all the at alfrice, S. Colombs per a lank og oct as of Eagelow, and Seartholy Levely but more n'ofed the D. Es. 7.1.68madyer 1880

0 1 2 3 4 5 6 7 8 9 10 MISSOURI BOTANICAL GARDEN





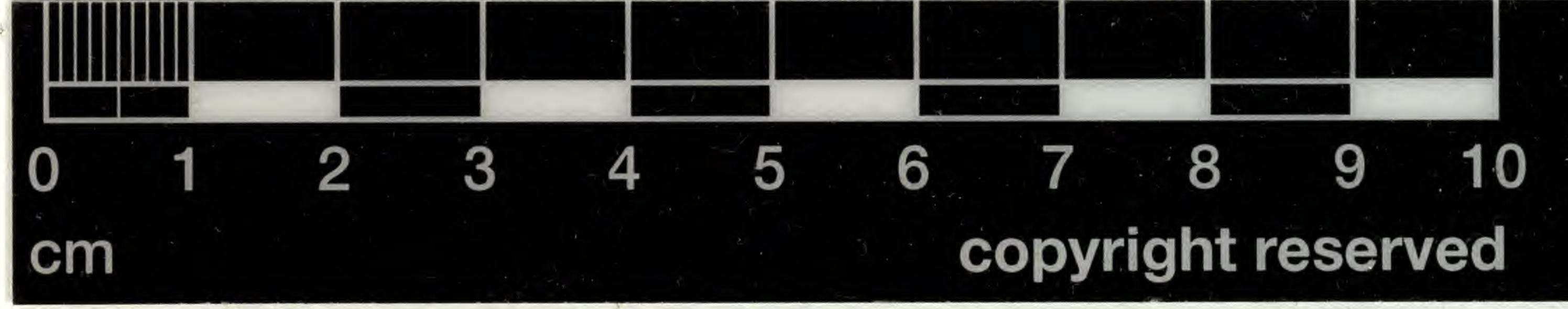


MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS



How A. laylaning juil som has obles ryle Ince cover at the end Astort bruncher, probably pendlens with deeply notched scales.

Hagens & Cong's of last year har oval cours, sealer not or soandy noted - postlevin unknow A. migna has ovel roues on short (/4-1 inch) reconver permeter A (broklety lataral). Grundlet, of a. migne publish or regula a. Cylin , ferbrok a. Mengier sant & Maring. As A. legde, a hybis of Menzioni. augen ! Mayien has come at the east of that Granches puller, with them. question of anin, in A. Egelin? 2, souls always notable ? 3 Granehlets alevans published. 4 Organs shoots with longer ene men slender leave,? 5- Whit difference of your legeling & Menzie I the real of thisme - H Meanta.





GEORGE ENGELMANN PAPERS MICSOURI BOTANICAL GARDEN chile the many an Alter mura ferra Man Enthalte otters & as les hearth seeing more helering I so mil Lite to Care der aire The and financial all the Dynamic he al more fate De the anne - 1/ gen the Do Me ale ale

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Gandenen Chronole Ing 14 1877 The gost of this artist is that John Barron dilingersher! 1. Abies Cazulmanni Whithis worthly for Calh vatin - England four true plant 2. A. Commulata Torbut glaceour or green spiagus teaved plast our Colondo Menziesei!) 3. A menjieser [ven] of the west Coast, with a district variety: A Sitchury; \* Jordon Vinetum, last adrtio p. 5 A Commutator lastatore, Engelmanni Sprice A. Engelmanni Varry; lewes thirthey const all around the Grandlets of who long, 4-5100 nigid, smooth, skapported shriftet on slightly curved of glecoones white tolow" Coulonly portion of the seed Cenzy are glacerous - others are dell green or define Thades of gleccours In the glaconer specimens

to be so large as to be impossible to remove from the place where they were first felled. Looking at the logs as imported it seems wonderful that they could have been brought over the seas in sufficient quantity to make them remunerative.

As we before said, many are the lessons to be learnt from a visit to such places as our import docks. The time thus spent is certainly not wasted. F. R. J.

## ABIES ENGELMANNI.

Your correspondents who have been trying to clear up this knotty point appear only to get deeper into the dilemma.

I went over to Knap Hill the other day, partly to see Mr. Waterer's very beautiful Rhododendrons, but principally to have a peep at the new Spruce, about which we have heard so much. When I saw it I immediately recognised a very old friend, which, rightly or wrongly, we have been selling for the last ten years under the name of Abies Engelmanni.

The plants which Mr. Waterer had under that name were so disfigured by spring frosts that they were very difficult to recognise, and I hesitated to express an opinion, although I had a very strong suspicion of what they were, which suspicion was thoroughly verified yesterday on comparing one of these plants (which Mr. Waterer at my request kindly forwarded to us) with a batch of plants in our possession.

In 1875 we purchased at Messrs. Stevens' auction rooms two parcels of seed under the name of Abies Engelmanni; after a time we discovered that we had two distinct varieties, one lot being the Abies Engel-

and from Chronicle July 14

on such of Bakeri Agave

1863, and I have come to the conclusion that the early growing worthless variety is the one intended. The plant there referred to as Picea Menziesii I fully believe to be the Abies Menziesii Parryana of M. André, or Abies commutata of M. Roezl.

And now I come to the gist of the matter. I must enter my protest against Abies Menziesii being mixed up in the controversy at all. Abies Menziesii, true, is a distinct species from either, and is not, that I am aware of, found in that locality, its babitat being in Northern California, and a variety of it very distinct although given by some authorities as a synonym, viz., Abies sitchensis being found as far north as the sland of Sitcha.

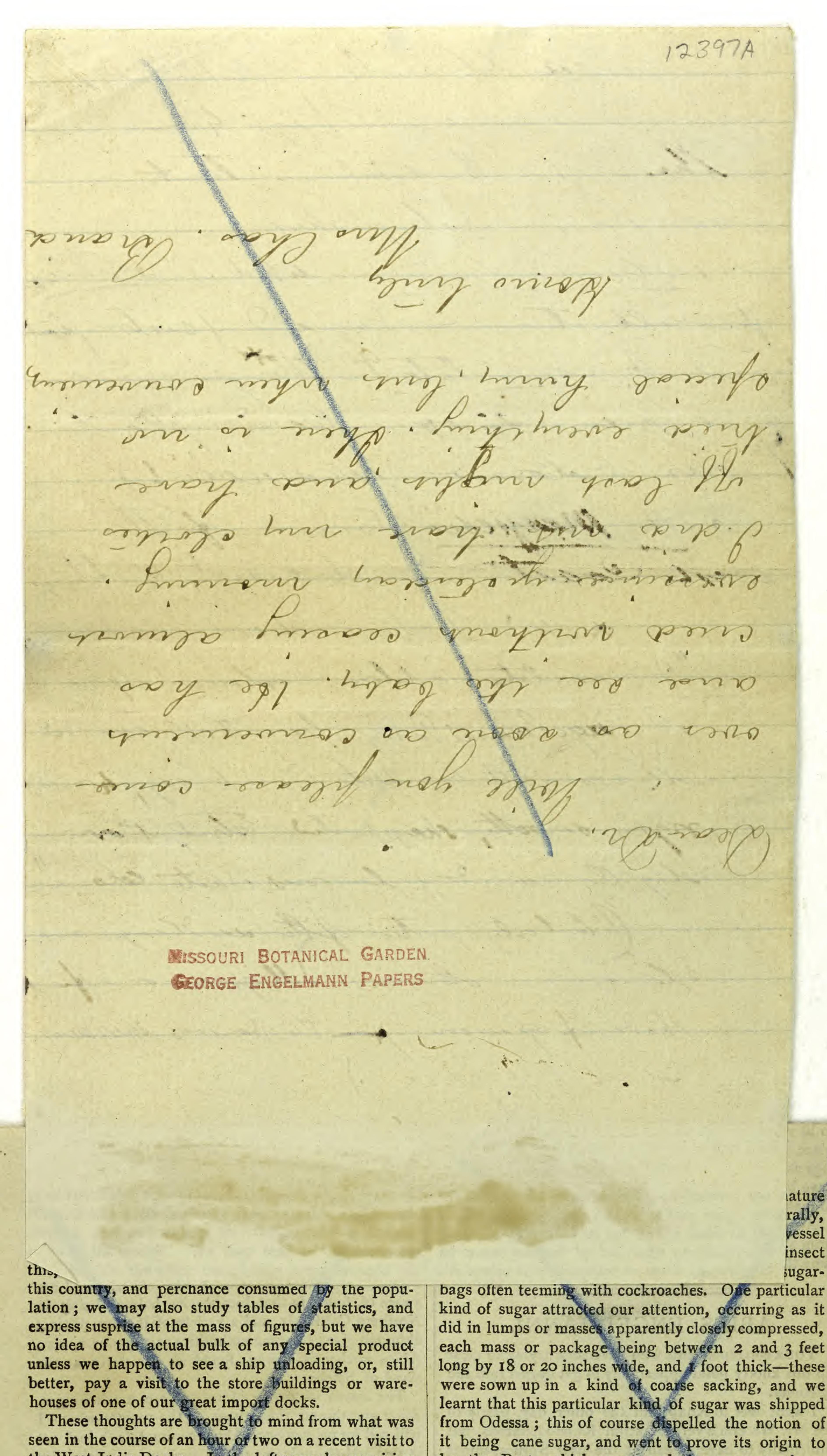
The leaves of Abies Menziesii are much longer, wider and thinner than those of the variety which I will call for convenience Abies commutata, a leaf cut in two and strongly magnified presents a totally different section. The leaves are much more thinly set, and only on the upper side of the branchlets, they are a vivid green above and glaucous beneath, whereas Abies commutata is rather more glaucous above than it is beneath.

The habit is totally different, and the growth of Abies Menziesii in one season is double that of Abies commutata; above all, the cones are dissimilar.

I have before me a cone of Abies Menziesii grown at Elvaston Castle, also a cone of Abies Menziesii pulled from a tree in the Rocky Mountains in Northern California by our Mr. Syme, likewise a cone of Abies commutata sent home by M. Roezl in 1874, which, from his letter, is undoubtedly the same as the plants referred to as growing in Denver city, and in Professor Sargent's garden at Brookline.

The cones of the two species differ considerably, although I do not dispute that there are providerably,

although I do not dispute that they are nearly allied. We have seedlings raised from seed sent out by M. Ortgies in 1875 through Messrs. Sander & Co. as Abies commutata, which we fully believe to be the right thing, but it is impossible to speak positively about such young plants. The question now is what is to be the name, as most certainly it is deserving of a name to itself, and should not be hung on to Abies Menziesii, from which it so much differs. Fohn Barron, Elvaston Nurseries, Borrowash, Derby.



the West India Docks. In the lofty warehouses rising from the landing quays of these extensive receptacles of foreign merchandise, are stowed property of almost fabulous value, and of course of great variety. One losty block is perchance filled with tea, another with coffee, and another with sugar, each one of these articles has in itself a history interesting enough, but, moreover, one that has been often told, and therefore it would seem that nothing new can be learnt or said about them. On the contrary many scraps of information can be picked up at these places, from the men in charge of the different floors, to each of which is allotted a special commodity, and though these men are from outward appearance working men in the true sense of the word, it is re markable the amount of intelligence displayed-

bags often teeming with cockroaches. One particular kind of sugar attracted our attention, occurring as it did in lumps or masses apparently closely compressed, each mass or package being between 2 and 3 feet long by 18 or 20 inches wide, and 1 foot thick—these were sown up in a kind of coarse sacking, and we learnt that this particular kind of sugar was shipped from Odessa; this of course dispelled the notion of it being cane sugar, and went to prove its origin to be the Beet, which was conclusive upon testing a sample, which left in the mouth a strong earthy or rooty taste, lasting a long time. This sugar is of a fairly light colour, and is, it seems, now brought into England in considerable quantities for the purpose of clarifying and crystallising. A sample of sugar from the same port, and from the same plant, crystallised before exportation, was also shown to us, and this, though in very small crystals, was as white as ordinary lump or loaf sugar, illustrating the degree of perfection attained in clarifying and crystallising sugar a obtained from this source—a source, moreover, from n whence we are fast obtaining our principal supplies, for statistics show that the produce of the Cane derived from all countries during the year 1876 amounted to 2, 140,000 tons, while that from the Beet

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vecetation became more luxuriant, Fig trees and

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Undertaker. Office Board of. Health,
No. 108 North Sixth Street. St. Lovis. Mo., I certify that I have examined this Certificate, and find it to accord with the requirements of the Board of Health. Clerk Board of Health. GEORGE ENGELMANN PAPERS Enjelman-



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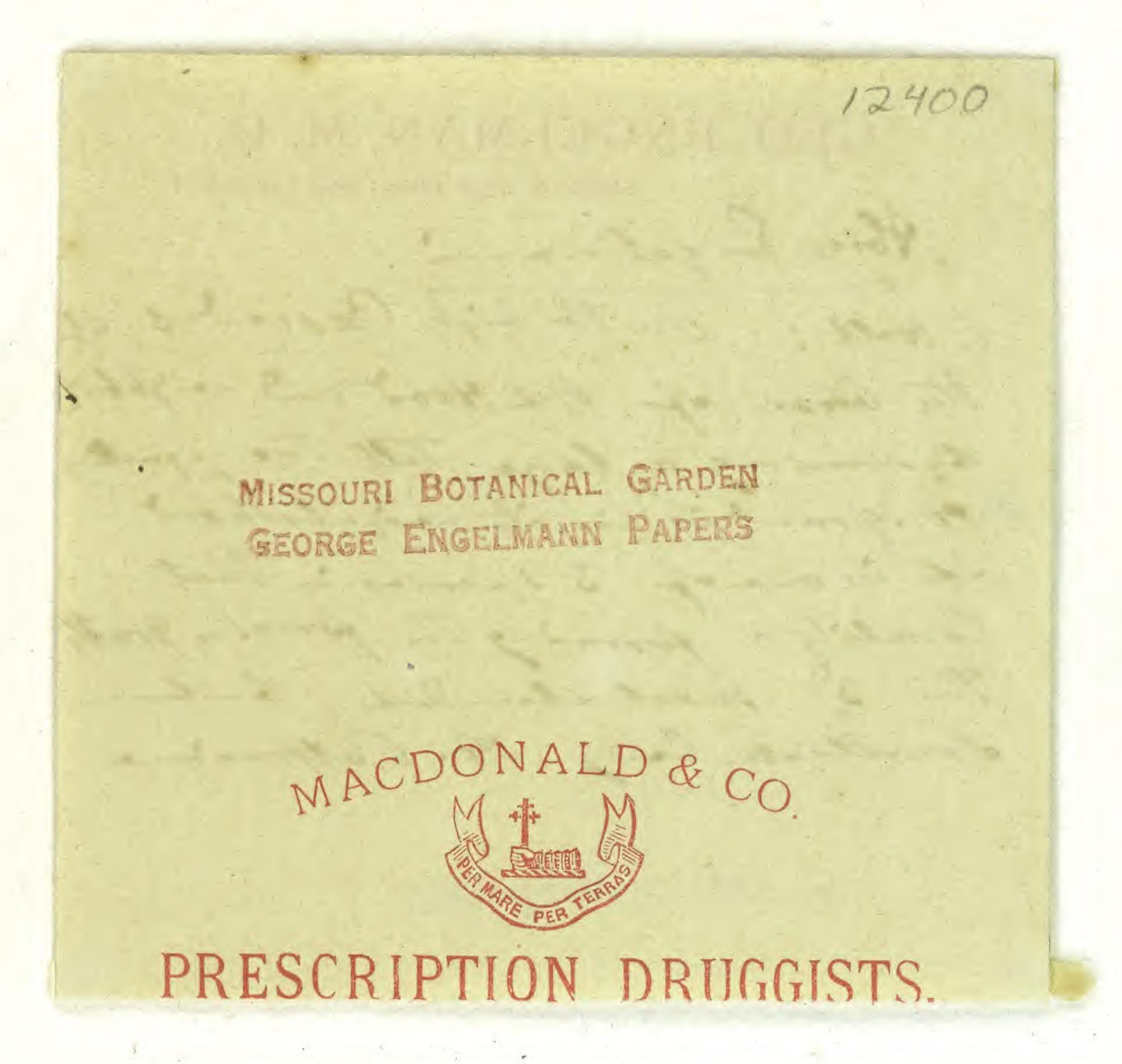


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GEO. ENGELMAN, M. D. Office & Residence; 3003 Locust St. Abies Engal mami Ettell: on the Ligh Carrades of the Care of ML Hood and weighter beroning a lane, Tall tree quilly A. grandistis its weighbothood It is and of 3 speries in that the 3 most about the forest of growth Smilled bary A. Pattoniana y July July Children

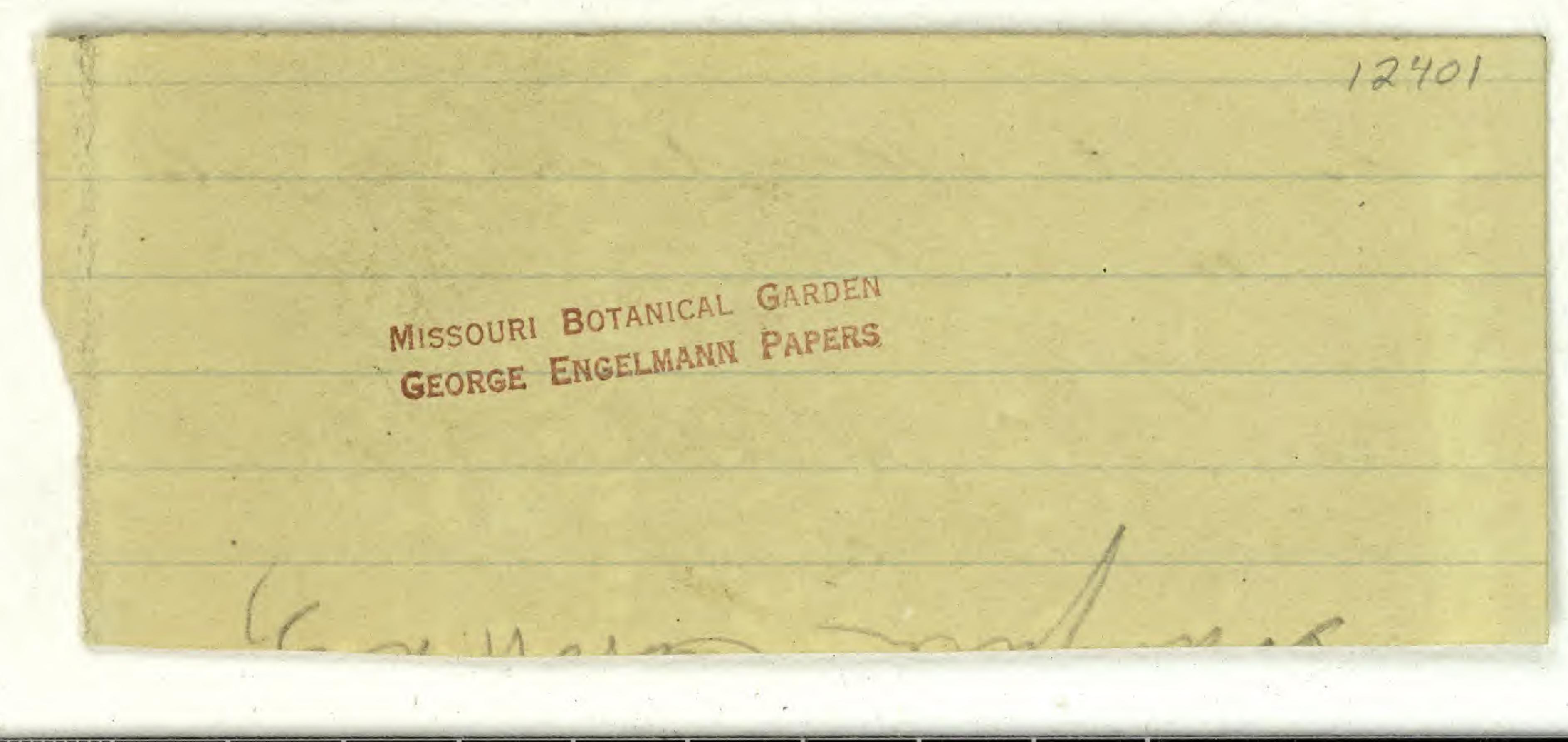






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Abies Meiziesi & A Ligelmani can be casile distinguished as fan as they can be seen æside of leaves and comes. Alegelum" A lacy in stiff i andessi man fil redish scale Back Brown, fumow persistent wood with coarse fore-grant - I oftens with trinken

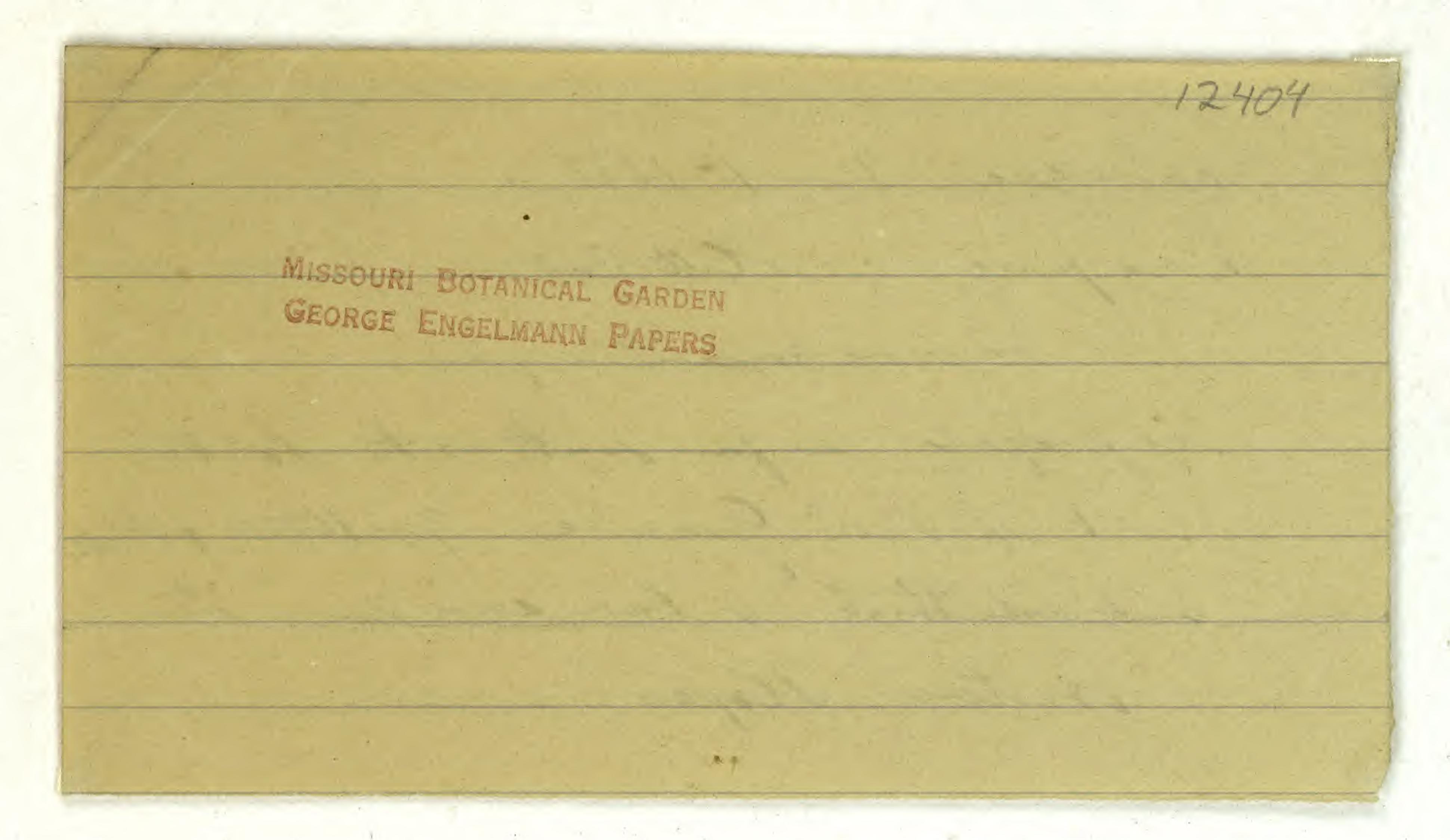


CHS. A. PILLEY, Secretary. JULES VALLE, President. EDWIN HARRISON, Vice-President. Grece Iron Mountain Company, No 941 NORTH SECOND STREET, Den Sin-Fruit me to thank you for your kindness in supplying me with the information

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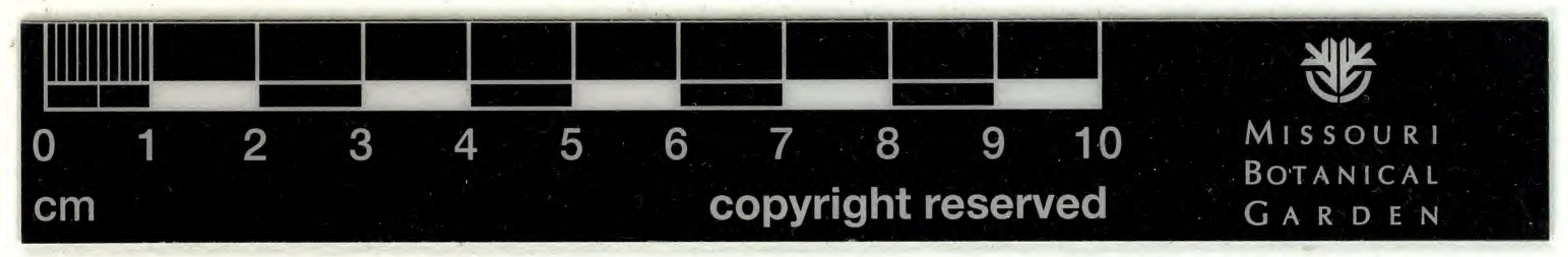
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mue let the Picea Stitchensis man come un. Picea v Mky uts. "I d'était - d'pre por producer sense in "rivulais" & I hate Liste much "Actuniquina" - prad to speak. The true takes to hill sides like any the Junes \_ 5 pot speciales frud of strans. I recomme a Snowphial man to go along with Attchais i bir. O. Colombensis, A. as Parry par lught it to pile. P. Danni. This is the supplied Jun 24 1878



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Abies Menziesei List used for the Colombo true in Agging Cotter of Pany's Marts is Lillefourne.

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Ared. Philad. March 1863 p. 76. Ed. André is Illustration Hey Menglesi ver Pany ana Nortivele Devemb. 1876 Sticea pungeus lyder - a leller to Hooker, publisher in Gandraus Chromite March 15 1879
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